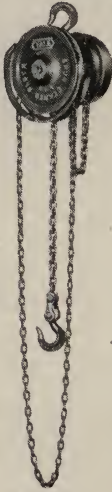


Yale Ball Bearing Spur-Gearred Chain Hoists

Capacity, 300 Pounds to 40 Tons



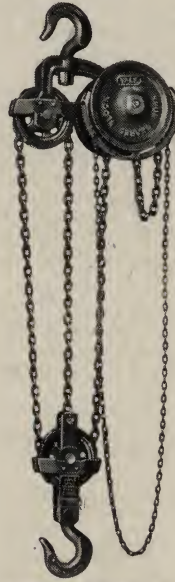
300 Pounds to 1/2 Ton



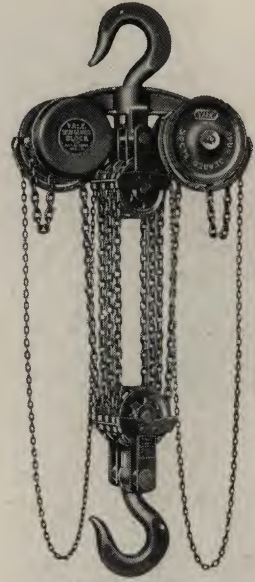
1 Ton



2 and 3 Tons



5, 6, and 8 Tons



12 and 16 Tons

HOIST MECHANISM if of the spur gear reduction, planetary system. Gears are mounted on bronze anti-friction bearings, oil duct lubrication. Gear pressure is so balanced that thrust is diametrically opposed, setting up a minimum of stress and maintaining initial high efficiency.

All members in suspension are steel.

LOAD BRAKE is screw and disc type, self actuating, of ample area, with the ratio of brake pressure increasing in proportion to the increase in load.

LOAD SHEAVE on which the suspended load is lifted, is mounted on two ball bearings of the radial thrust type, using high carbon chrome alloy steel balls and chrome vanadium races. Bearings are enclosed with dustproof metal and felt oil retaining rings.

LOAD SHEAVE BEARING is ground concentric, with .001-inch working tolerance.

DRIVING PINION SHAFT is hardened and ground with .001-inch working tolerance, and revolves in bronze bushings in the load sheave. Gear and pinions are provided with bronze bushings.

YALE HOOKS are drop-forged steel. Hooks will open slowly without fracture under severe overload. This provides warning of danger, and permits depositing the load without

injury to the operator, to the load, or to the hoist mechanism. Free, easy, and universal movement is provided by swiveling on heavy duty ball bearings and swinging or rocking on a crosshead. The ball bearings are totally enclosed against dirt, dust, water, etc.

YALE CHAIN is made exclusively of steel. It is formed, welded, heat-treated, tumbled, and gaged by a controlled process that provides the following physical characteristics:

1.—Chain having the necessary ductility and toughness to withstand heavy intermittent loads, and the characteristics whereby it will stretch before breaking.

2.—Uniformity as to size, with all links gaged on master gages for accuracy of pitch and overall dimensions.

3.—A minimum strength at the weld equal to the ultimate strength of the chain.

DROP-FORGED, 2-PIECE SHACKLES with heat-treated suspension pin permits changing or replacing load chain without welding. Hand chain guide is continuous and adjustable which prevents fouling of hand chain.

LUBRICATION: Hoisting gears, oil and grease; bearings and brake, oil duct with ball valve dustproof oilers.

The final test on all finished units is with 50 percent overload, long ton rating.

| Model | Rated Capacity Long Tons | Complete Standard Lift Each | Extra Lift Foot | Travel of Lower Hook Lift Feet | Test Load in Long Tons | Minimum Distance Between Hooks Inches | Chain Pull to Lift Full Load Pounds | Chain Overhauled to Lift Load Foot Feet | HOISTING SPEEDS FEET PER MINUTE | | | Weight Pounds |
|-------|-----------------------------|--------------------------------------|-----------------------|-----------------------------------------|---------------------------------|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|------------------------------------|--------------|-----------------|------------------|
| | | | | | | | | | Full Load | Half Load | Quarter Load | |
| BB | *300 | \$60.00 | \$1.80 | 8 | *504 | 12 | 44 | 8 | 28 | 54 | 75 | 62 |
| BB | 1/4 | 70.00 | 1.80 | 8 | 3/8 | 12 | 47 | 12 1/2 | 17 | 30 | 45 | 62 |
| BB | 1/4 QS | 70.00 | 1.80 | 8 | 3/8 | 12 | 74 | 8 | 17 | 32 | 48 | 62 |
| BB | 1/2 | 70.00 | 1.80 | 8 | 3/4 | 12 | 57 | 21 | 8 1/2 | 17 | 26 | 62 |
| BB | 1/2 QS | 90.00 | 1.90 | 8 | 3/4 | 15 1/2 | 85 | 14 | 9 | 18 | 27 | 94 |
| BB | 1 | 90.00 | 1.90 | 8 | 1 1/2 | 15 1/2 | 76 | 31 | 4 1/4 | 8.5 | 13 | 94 |
| BB | 1 1/2 | 120.00 | 2.00 | 8 | 2 1/4 | 18 | 103 | 35 | 5.1 | 10.2 | 15.3 | 136 |
| BB | 2 | 140.00 | 2.10 | 9 | 3 | 21 | 112 | 42 | 3.9 | 7.8 | 11.7 | 204 |
| BS | 3S | 180.00 | 2.60 | 10 | 4 1/2 | 23 | 102 | 77 | 2.5 | 5.0 | 7.5 | 269 |
| BB | 3 | 180.00 | 3.00 | 10 | 4 1/2 | 32 | 107 | 70 | 2.5 | 5.0 | 7.5 | 212 |
| BB | 4 | 220.00 | 3.20 | 10 | 6 | 37 | 116 | 84 | 1.9 | 3.8 | 5.7 | 301 |
| BB | 5 | 280.00 | 4.30 | 12 | 7 1/2 | 45 | 102 | 126 | 1.4 | 2.8 | 4.2 | 413 |
| BS | 5D | 280.00 | 4.20 | 12 | 7 1/2 | 34 | 90 | 154 | 1.4 | 2.8 | 4.2 | 388 |
| BB | 6 | 330.00 | 4.30 | 12 | 9 | 45 | 122 | 126 | 1.2 | 2.4 | 3.6 | 413 |
| BS | 6D | 330.00 | 4.20 | 12 | 9 | 34 | 108 | 154 | 1.2 | 2.4 | 3.6 | 388 |
| BB | 8 | 400.00 | 5.40 | 12 | 12 | 49 | 127 | 168 | .85 | 1.7 | 2.6 | 502 |
| BB | 10 | 480.00 | 6.50 | 12 | 15 | 52 | 132 | 210 | .65 | 1.3 | 2.0 | 612 |
| BB | 12 | 600.00 | 8.60 | 12 | 18 | 52 | 122 | 126 | 1.2 | 2.4 | 3.6 | 860 |
| BB | 16 | 720.00 | 10.80 | 12 | 24 | 60 | 127 | 168 | .85 | 1.7 | 2.6 | 1046 |
| BB | 20 | 850.00 | 13.00 | 12 | 30 | 62 | 132 | 210 | .65 | 1.3 | 2.0 | 1230 |
| BB | 25 | 950.00 | 13.00 | 12 | 37 1/2 | 62 | 165 | 210 | .50 | 1.0 | 1.5 | 1256 |
| BS | 30 | 1700.00 | 18.00 | 12 | 45 | 64 | 118 | 385 | .40 | .8 | 1.2 | 2150 |
| BS | 40 | 2700.00 | 25.00 | 12 | 60 | 71 | 120 | 539 | .30 | .6 | .9 | 3200 |

S—Single Chain. D—Double Chain. *Capacity in pounds. †For each hand chain.